Washington Latin -- Honors Pre-Calculus

Combining Functions

Given the following pairs of functions, find, in simplest terms;

a. *f(x) + g(x)* b. *f(x) - g(x)* c. *f(x)⋅ g(x)* d. 

1. ; 

2. ; 

3. (remember, improper fractions and horizontal fraction bars)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *x* | ***-3*** | ***-2*** | ***-1*** | ***0*** | ***1*** | ***2*** | ***3*** |
| *f(x)* | ***7*** | ***4*** | ***-2*** | ***3*** | ***-3*** | ***5*** | ***3*** |
| *g(x)* | ***8*** | ***-3*** | ***9*** | ***2*** | ***-1*** | ***3*** | ***2*** |
| *f(x) + g(x)* |  |  |  |  |  |  |  |
| *f(x) - g(x)* |  |  |  |  |  |  |  |
| *f(x)⋅ g(x)* |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

4. On a separate piece of graph paper, graph the answers.

